IN THE CLAIMS:

Please amend claim 1, cancel claim 5 without prejudice or disclaimer, and add new claims 6-14, as follows:

- 1. (AMENDED) A process for detecting or determining a C-peptide-containing impurity in a sample of recombinantly produced human insulin or a derivative thereof, by a non-radioactive assay, comprising the steps:
 - (a) preparing a sample of recombinantly produced human insulin or a derivative thereof;
 - (b) mixing the samples with dilution buffer;
 - (c) adding a tracer to mixture (b);
 - (d) adding antibody specific for the C-peptide impurity to mixture (c);
 - (e) adding a C-peptide second antibody bead having at least one label to mixture (d); and
 - (f) detecting or determining the presence of the C-peptide-containing impurity.
- 6. (NEW) The process according to claim 1, wherein the antibody specific for the C-peptide impurity additionally recognizes at least one model compound chosen from preproinsulin, reduced human insulin, alkylated human insulin, human insulin cleaved with endoproteinase, Lys(B3)-Glu(B29)-human insulin C-peptide, and Lys(B3)-Glu(B29)-human insulin preproinsulin.
- 7. (NEW) The process according to claim 1, wherein the antibody specific for the C-peptide impurity recognizes both C-peptide and preproinsulin with nearly the same affinity.

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- 8. (NEW) The process according to claim 1, wherein the tracer is chemiluminescent.
- 9. (NEW) The process according to claim 8, wherein the tracer comprises an acridinium ester moiety.
- 10. (NEW) The process according to claim 1, wherein the presence of about 1 mg/mL human insulin does not interfere with the binding of the antibody specific for the C-peptide impurity.
- 11. (NEW) The process according to claim 1, wherein the antibody specific for the C-peptide impurity is obtained by immunizing a mammal with a purified insulin C-peptide.
- 12. (NEW) The process according to claim 11, wherein the mammal is a sheep.
- 13. (NEW) The process according to claim 11, wherein the purified insulin C-peptide is monkey C-peptide.
- 14. (NEW) The process according to claim 11, wherein the purified insulin C-peptide is human C-peptide.

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